

**FIG. 1: Data Packet Transport System**

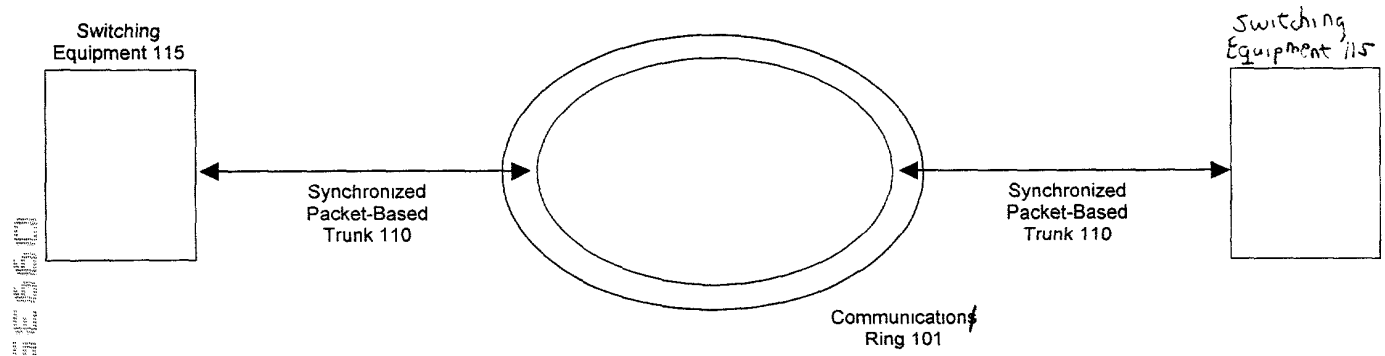


FIG. 2: Timing Diagram of Synchronized Packet-based Trunk

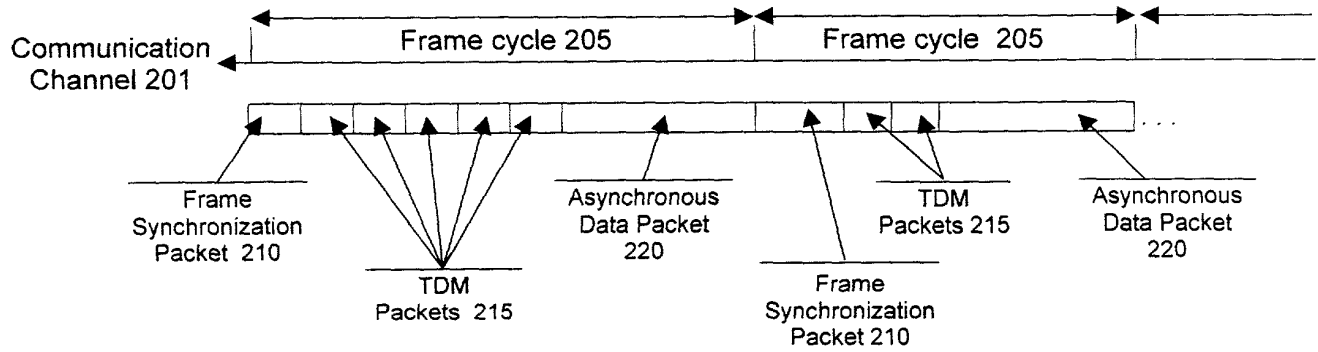
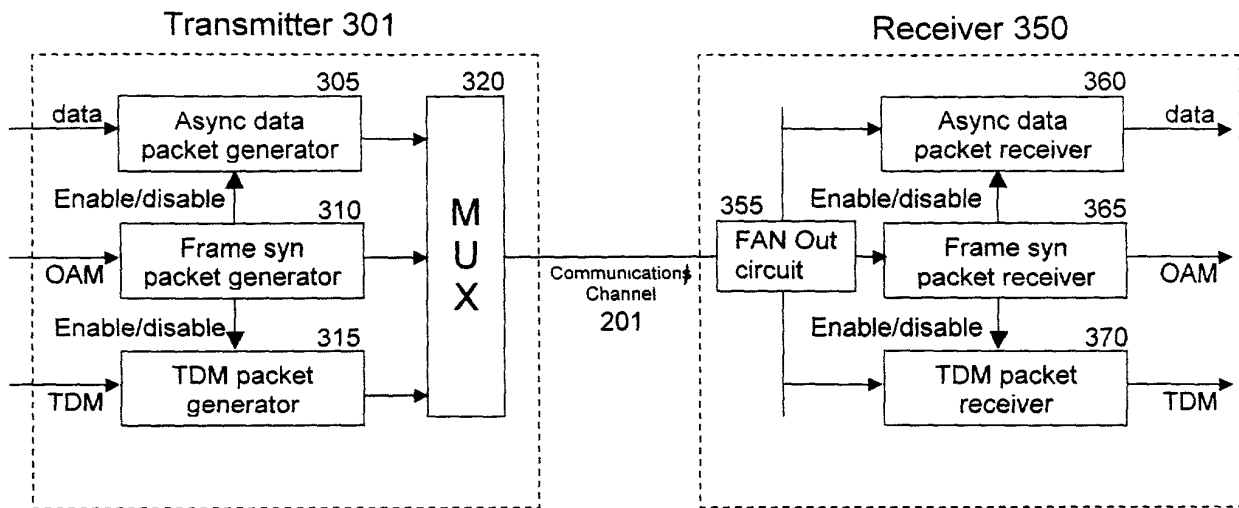
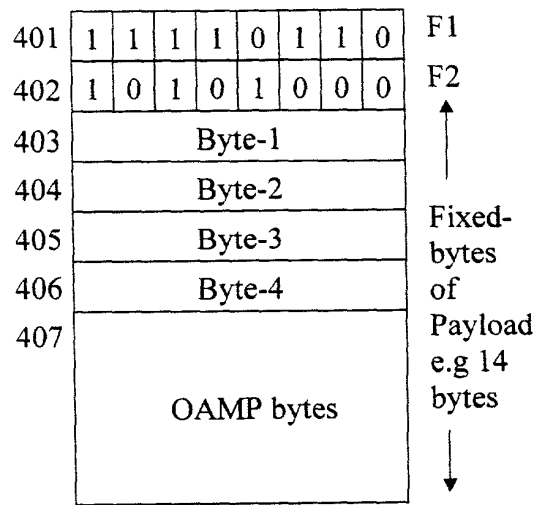


FIG. 3: Trunk Transmitter and Receiver



**FIG. 4: Frame Synchronization Packet Format**



**FIG. 5: TDM Packet Format**

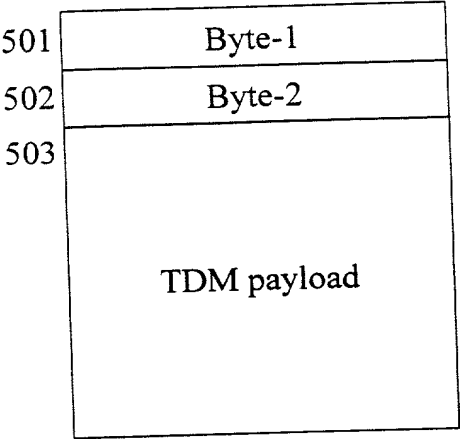
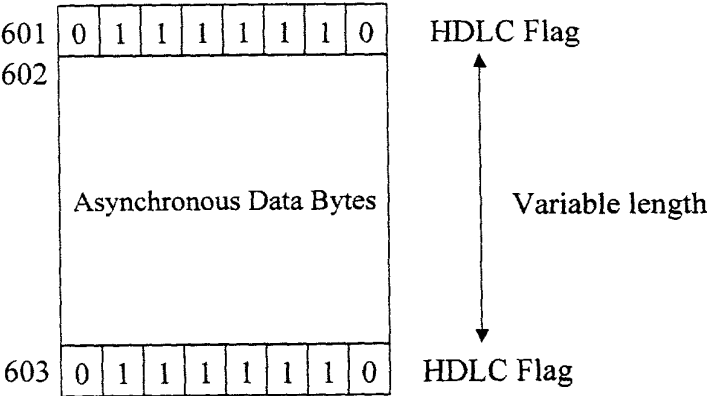


FIG. 6: Asynchronous Data Packet Format



**FIG. 7: Synchronized Packet-Based Trunk Receiver Operation**

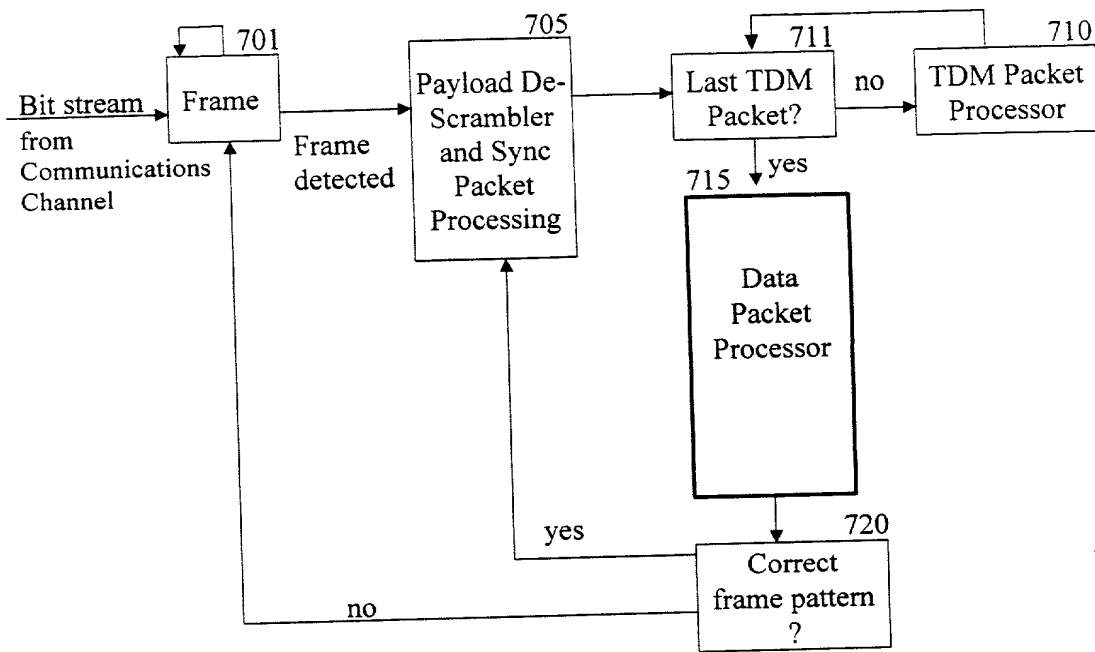


FIG. 8: Data Packet Processor

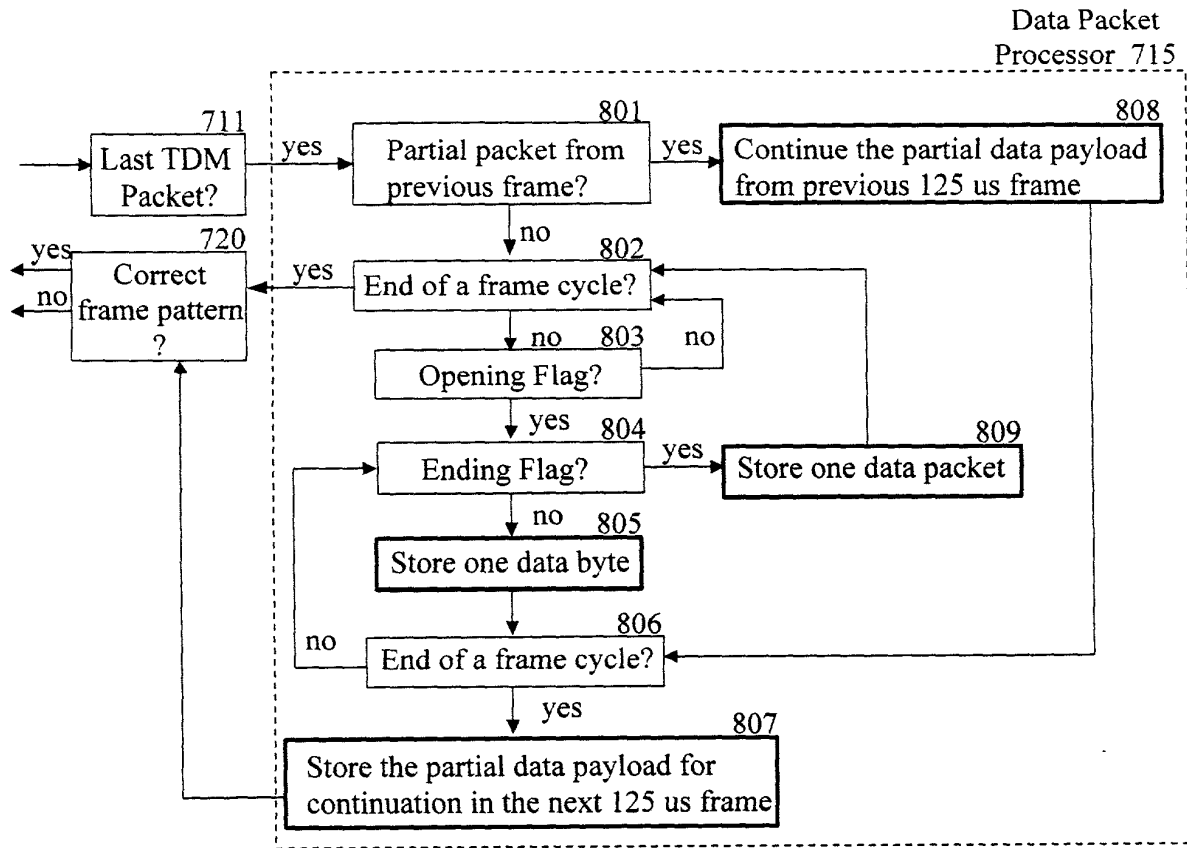




FIG. 9: Synchronized Packet-Based Trunk Transmitter Operation

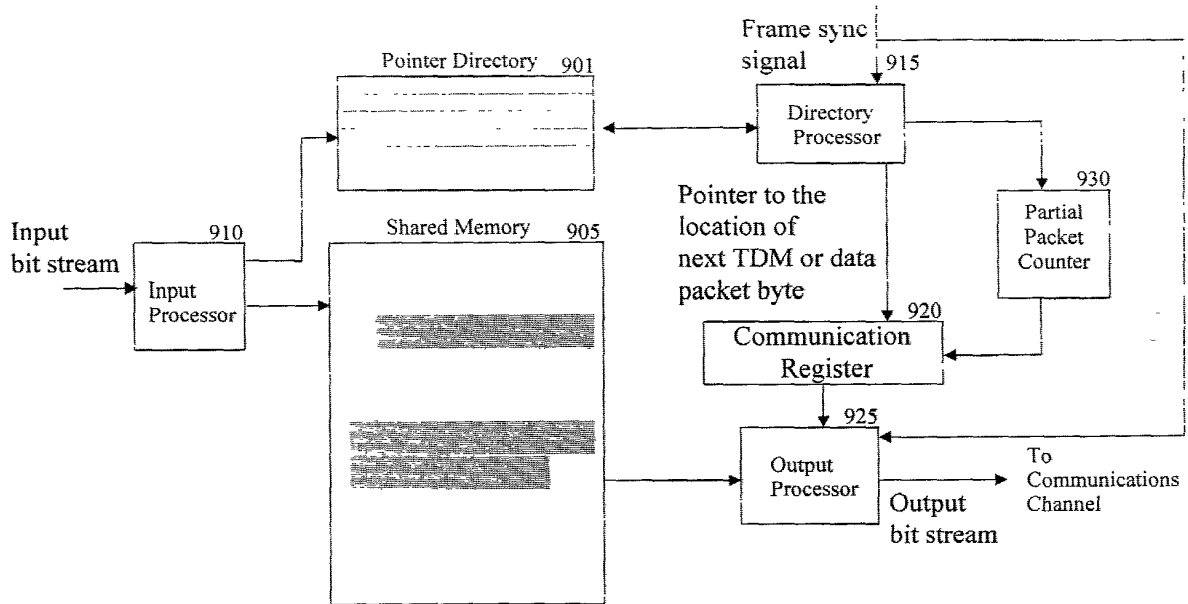


FIG. 10: Example of Pointer Directory Implementation

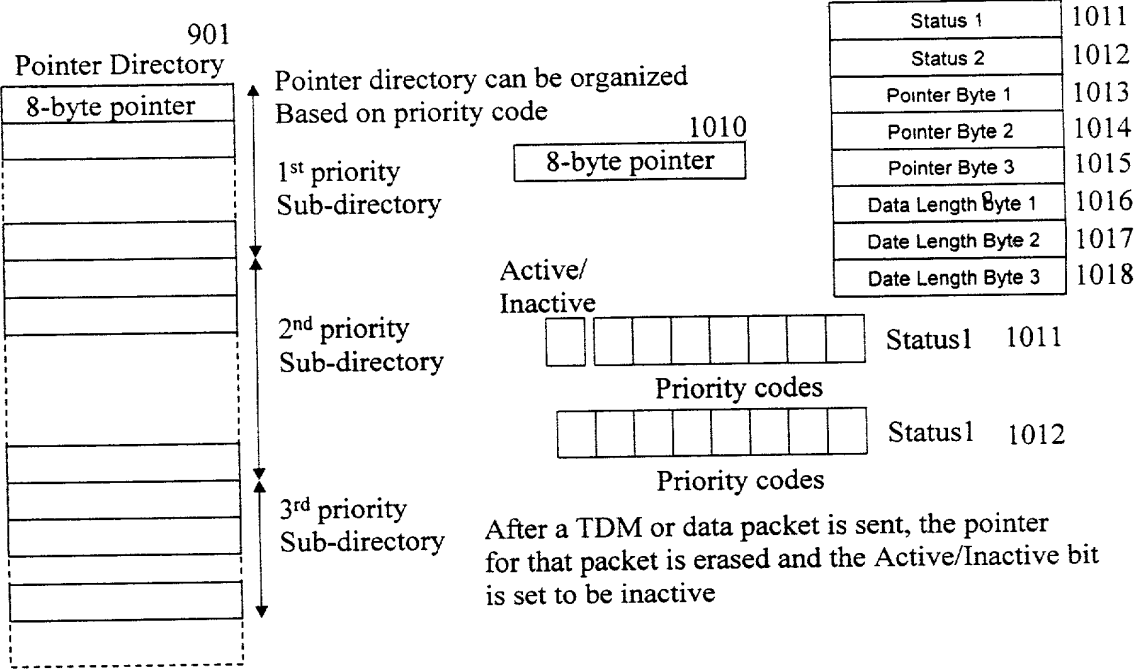


FIG. 11: Relationship between Pointer Directory and Shared Memory

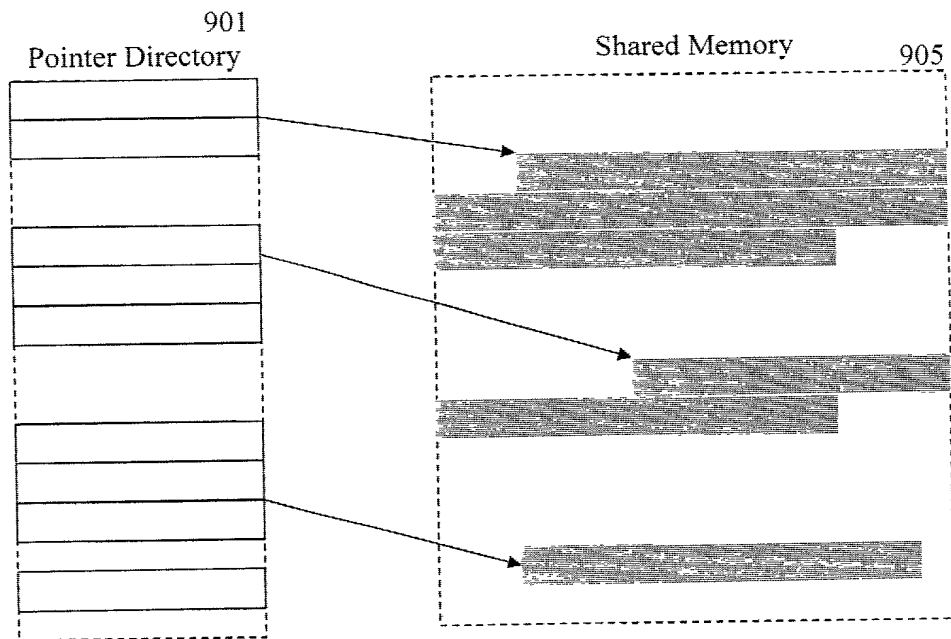


FIG. 12: Synchronized Packet-Based Input Processor

↑  
Trunk

Input Processor 910

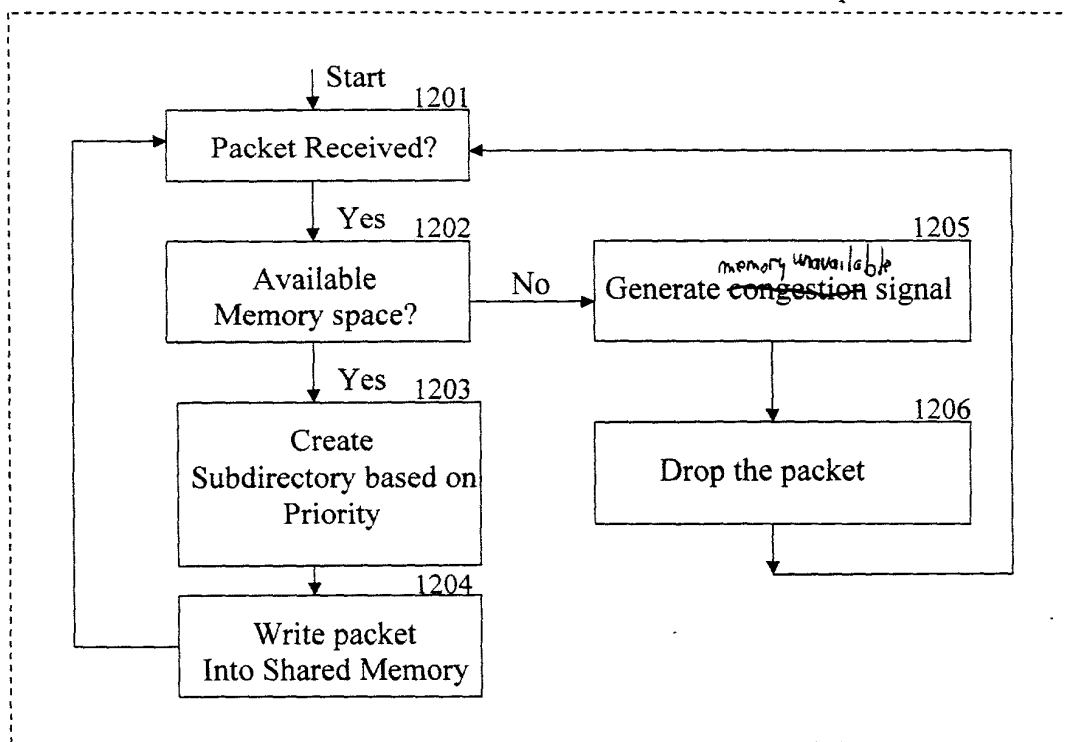


FIG. 13: Synchronized Packet-Based Trunk Directory Processor

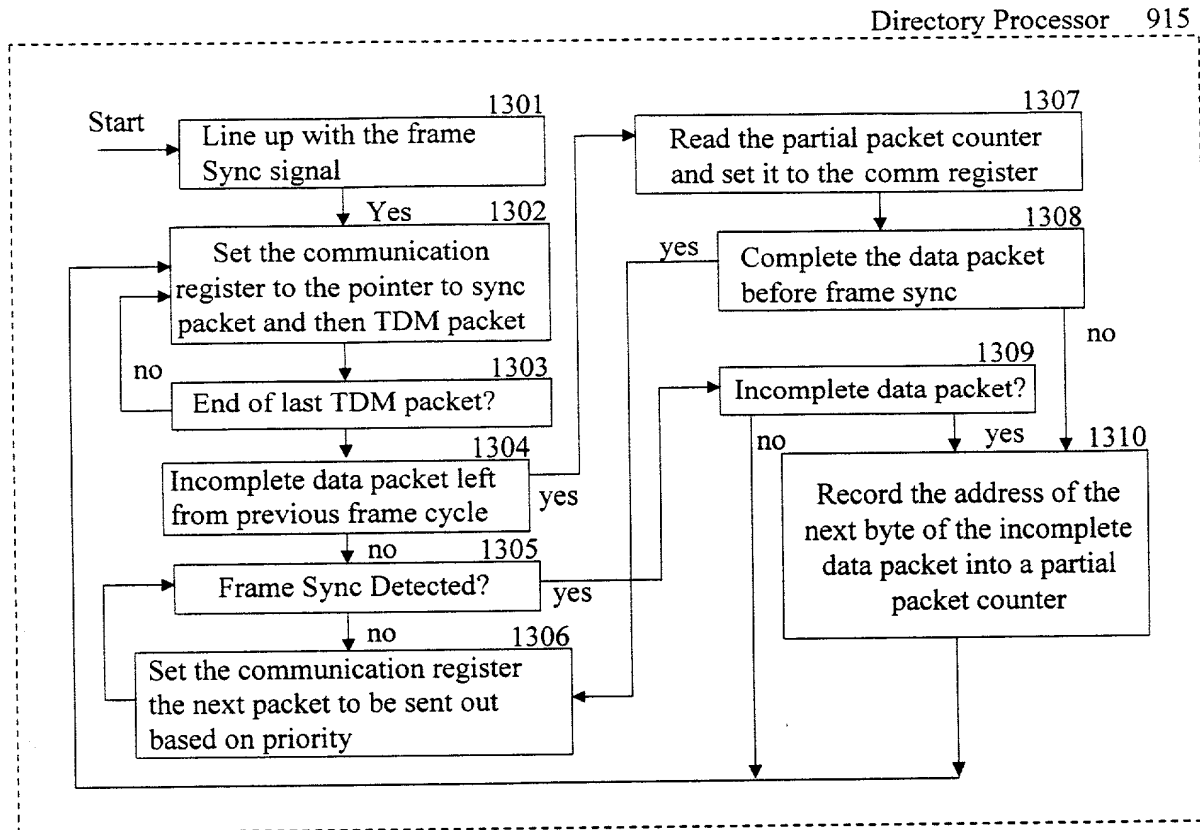


FIG. 14: Synchronized Packet-Based Trunk Output Processor

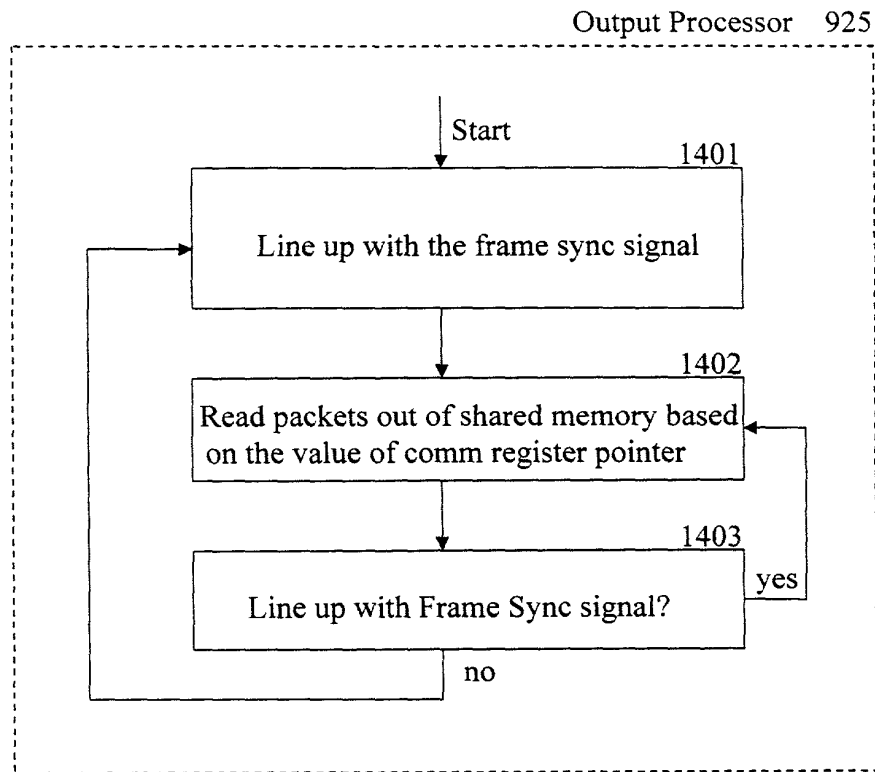
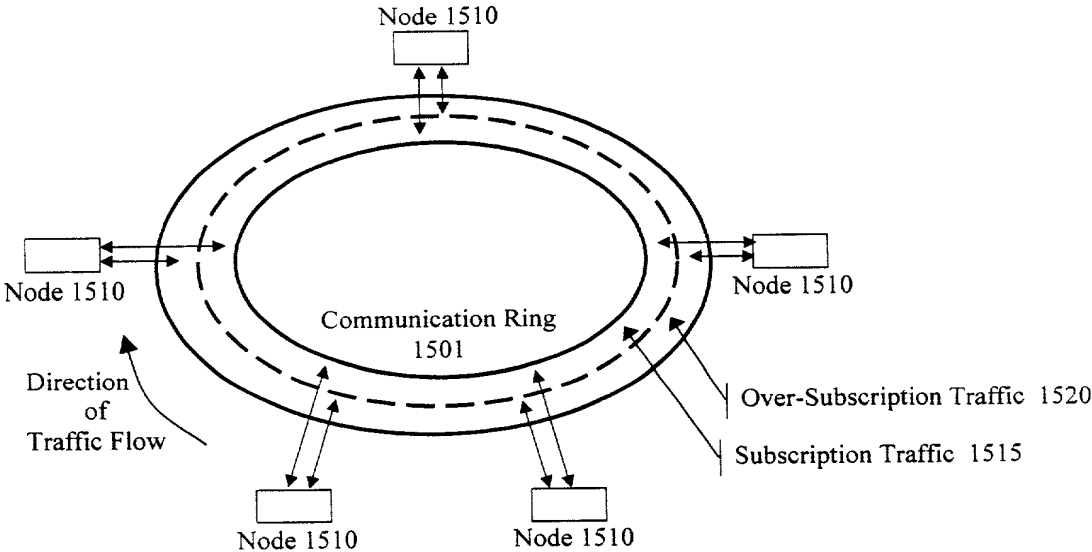
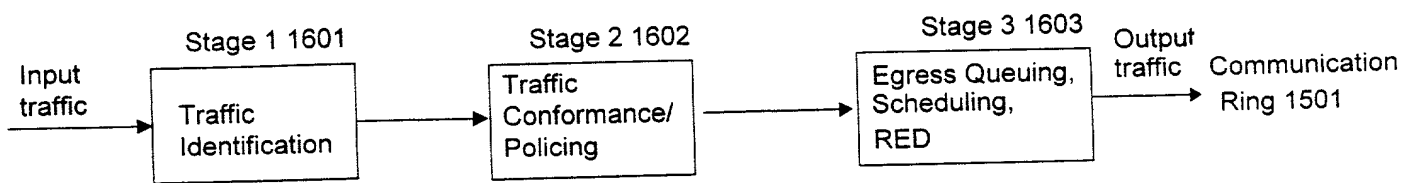


FIG. 15: Communication Ring



**FIG. 16 Traffic Processing Stages**





**FIG. 17 Dynamic Bandwidth Sharing Traffic Processing**

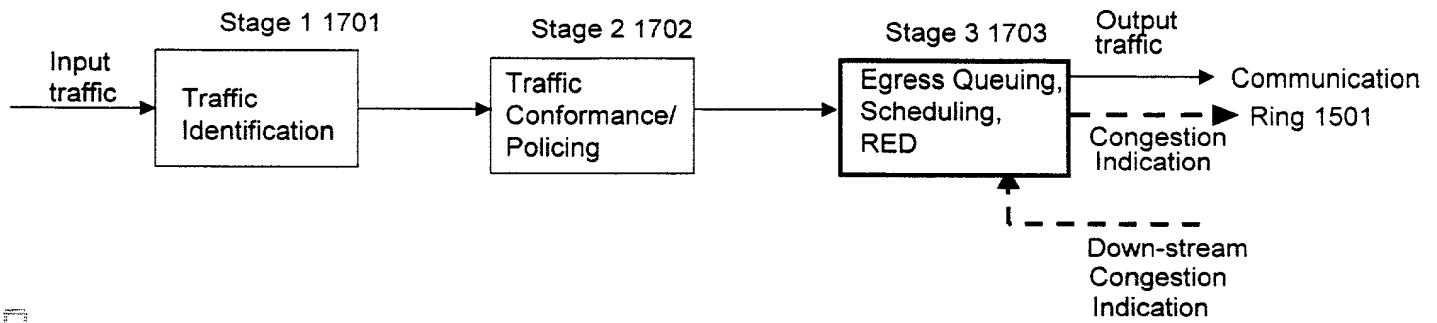
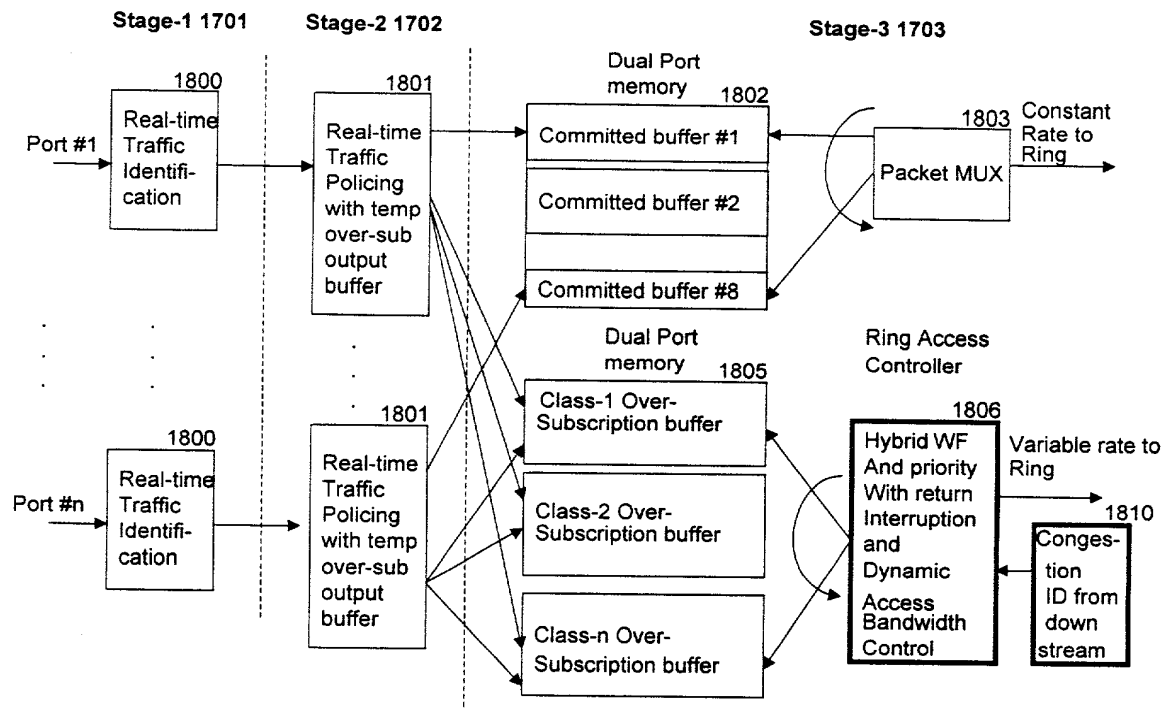


FIG. 18 Dynamic Bandwidth Sharing Traffic Processing Functional Diagram



**FIG. 19 Example of Traffic Identification Table**

**Traffic Identification Table 1901**

Ethernet port #2	Based on per port contract VBR- nrt traffic, mean rate 2 Mb/s, Normal burst size 500 bytes, Excess burst size 1500 bytes
Ethernet port #4	Based on per DSCP contract TOSxxx : VBR- nrt . mean rate 4 Mb/s Normal burst size 128 bytes Excess burst size: 500 bytes TOSyyy : PCR, mean rate 64 Kb/s, Delay variation 50 us

FIG. 20 Dynamic Bandwidth Sharing Stage 2 Processing

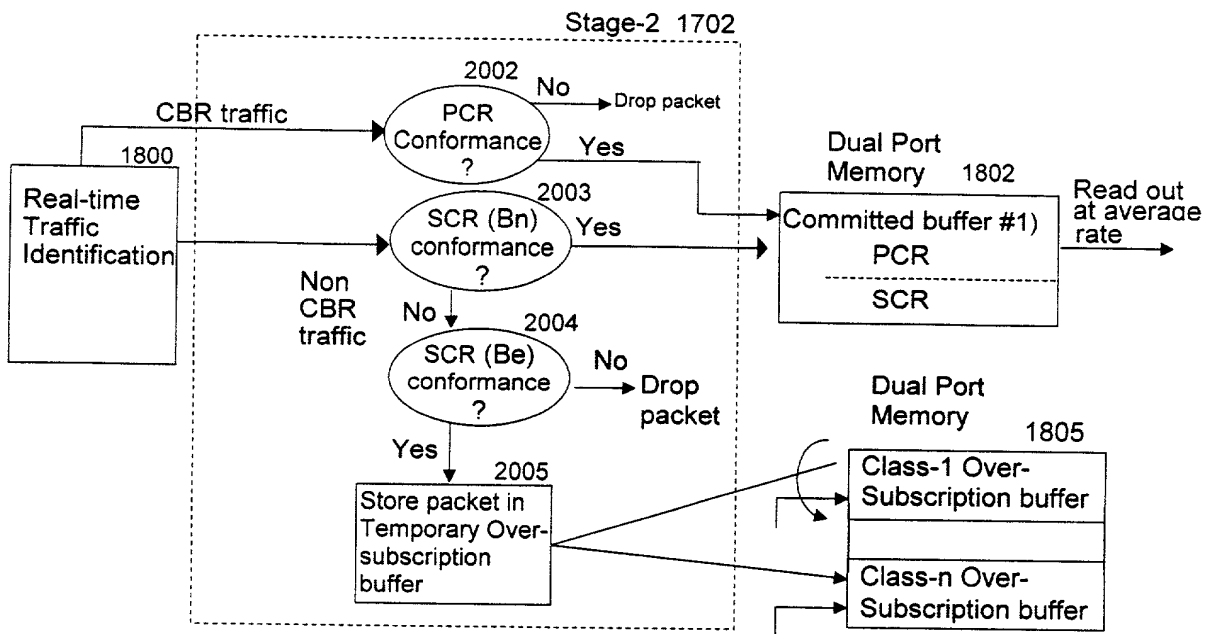


FIG. 21 Dynamic Bandwidth Sharing Stage 3 Processing

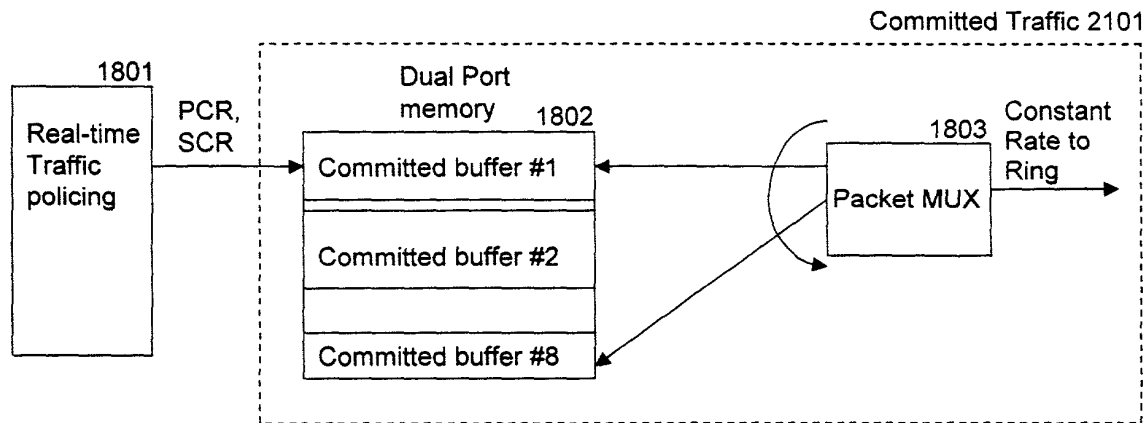


FIG. 22 Dynamic Bandwidth Sharing Stage 3 Processing

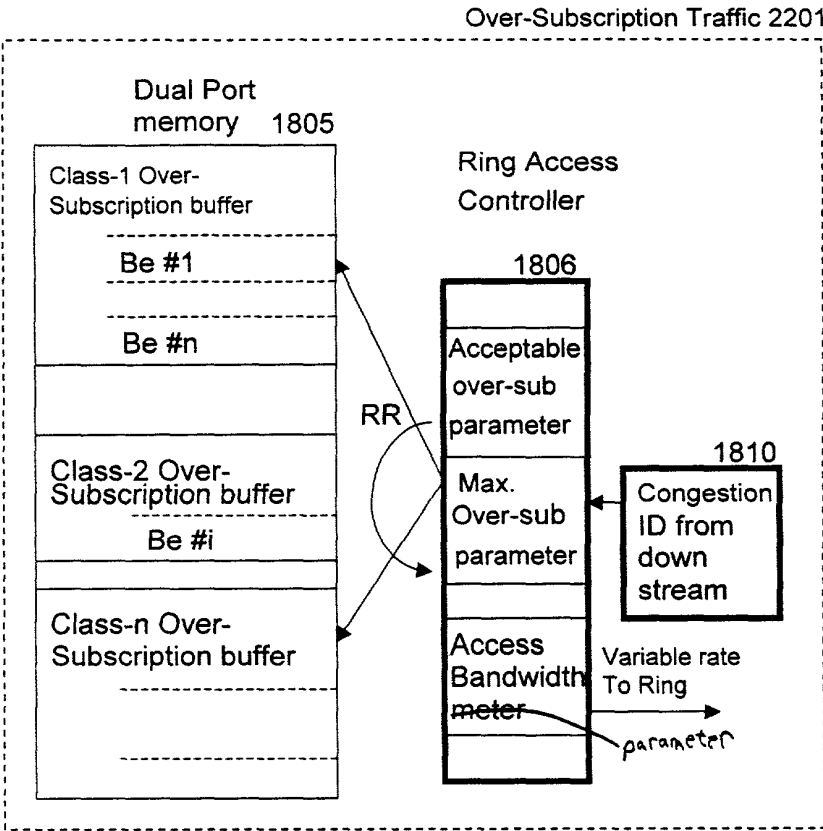


FIG. 23 Dynamic Bandwidth Sharing Congestion Control

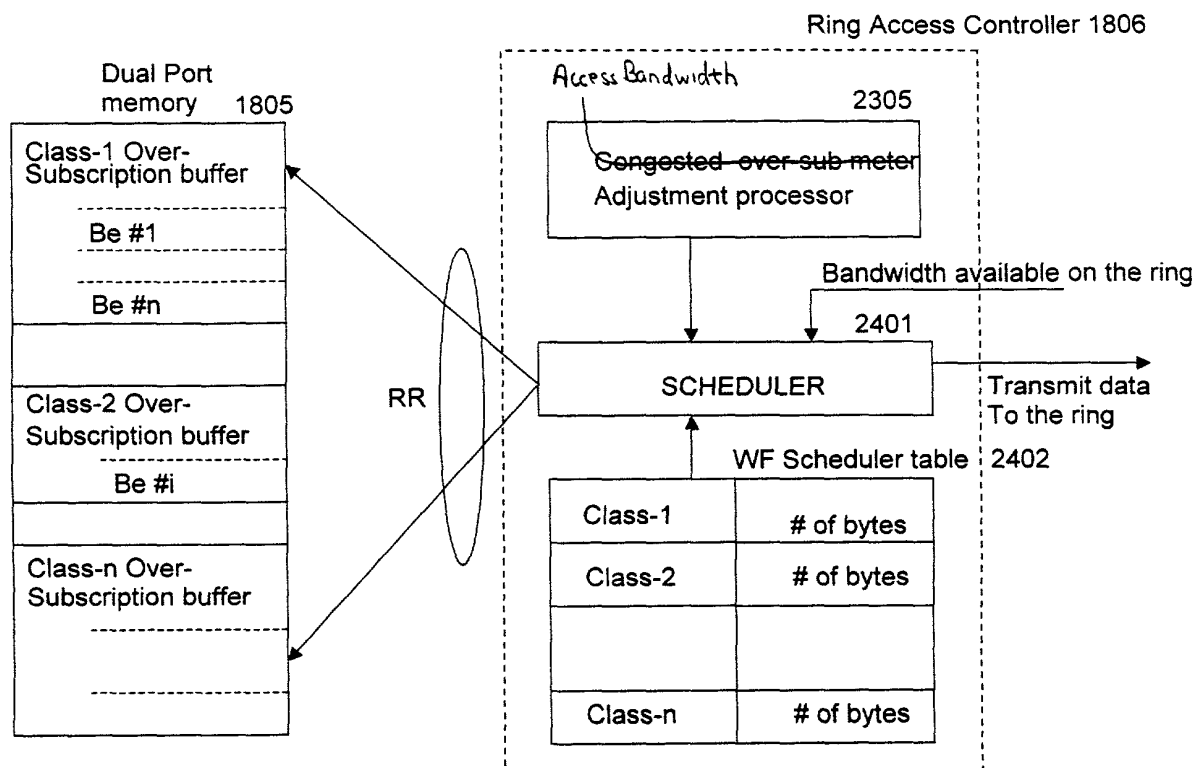


FIG. 24 Dynamic Bandwidth Sharing

